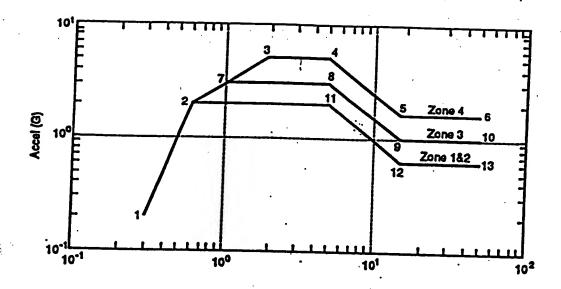


Earthquake Synthesized Waveform - VERTEQII

Fig 1A





Coordinate Point	Frequency (Hz)	Values for Upper Floor Acceleration (g)	Coordinate Point	Frequency (Hz)	Values for Upper Floor Acceleration (g)
	Zones 1	and 2		Zor	
1	0.3	0.2	1	0.3	0.2
2	0.6	2.0	2	0.6	2.0
11	5.0	2.0	3	2.0	5.0
12	15.0	0.6	4	5.0	
13	50.0	0.6	5	15.0	5.0
	Zone		6	50.0	1.6
1	0.3	0.2		30.0	1.6
2	0.6	2.0			
7	1.0	3.0			
8	5.0	3.0			
9	15.0	1.0			
10	50.0	10			

FIG 1B

200

::

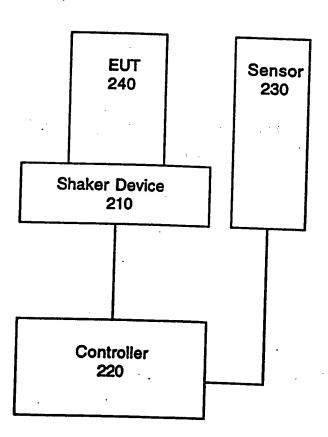


FIG 2



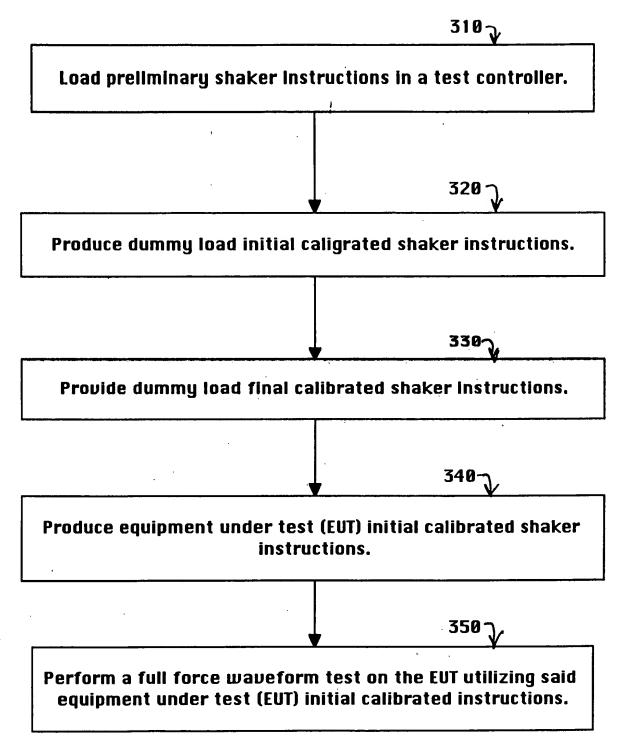


FIG. 3A



322 $\sqrt{}$

Shake a dummy load at a first attenuated value of the preliminary shaker instructions.

323

Measure the actual accceleration time history movement of the dummy load when shook at the attenuated value of the preliminary shaker instructions.

324 ~

Analyze if a dummy load attenuated test response spectrum (TRS) is projected to be within acceptable range of a required response sepctrum(RRS) requirements.

325 ე

Make adjustments in the preliminary shaker instructions to produce the dummy load initial calibrated shaker instructions, the adjustments calculated to bring a dummy load full strength test response spectrum within acceptable range of the required response spectrum (RRS)



332₇

Shake a dummy load at full strength value of the dummy load initial calibrated shaker instructions.

333

Measure the actual acceleration time history movement of the dummy load when shook at the full strength value of the dummy load initial calibrated shaker instructions.

334 ·

Determine if the dummy load full strength test response spectrum (TRS) is within an acceptable range of the required response spectrum (RRS).

335 -

Make adujustments in the dummy load initial calibrated shaker instructions to produce the dummy load final calibrated shaker instructions, the adjustments calculated to brnig a test respons spectrum (TRS) within an acceptable range of the required response spectrum (RRS).



342

Shake equipment under test at a second attenuated value of the dummy load final calibrated shaker instructions.

343

Measure the actual acceleration time history movement of the equipment under test when shook at the attenuated value of the predetermined waveform.

344

Determine if the equipment under test attenuated test response spectrum (TRS) is within an acceptable range of the required repsonse spectrum (RRS).

345^

Make adjustments to the dummy load final calibrated shaker instructions to produce the equipment under test attenuated shaker instructions if the dummy load full strength test response spectrum (TRS) is not within an acceptable range of the required response spectrum (RRS).



352

Shake equipment under test at a full strength value of the equipment under test final calibrated shaker instructions.

353 **V**

Measure the actual acceleration time history movement of the equipment under test when shook at the full strength value of the predetermined waveform.

354

Determine if the test response spectrum (TRS) is wihin acceptable range of the required response spectrum (RRS).



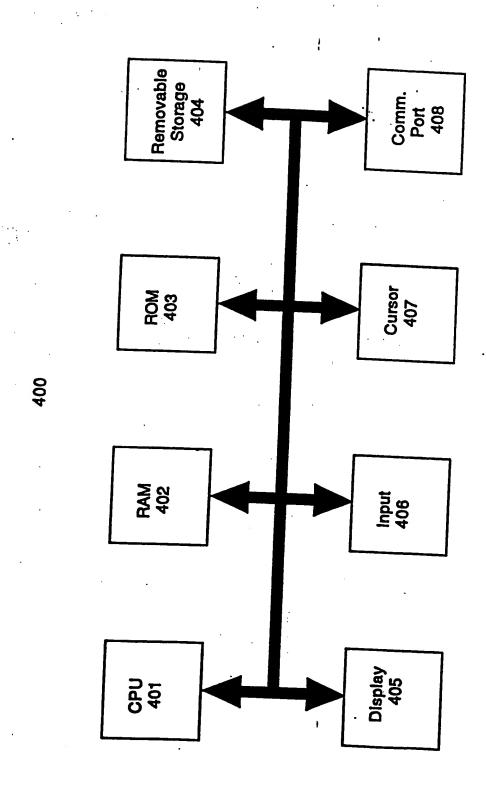
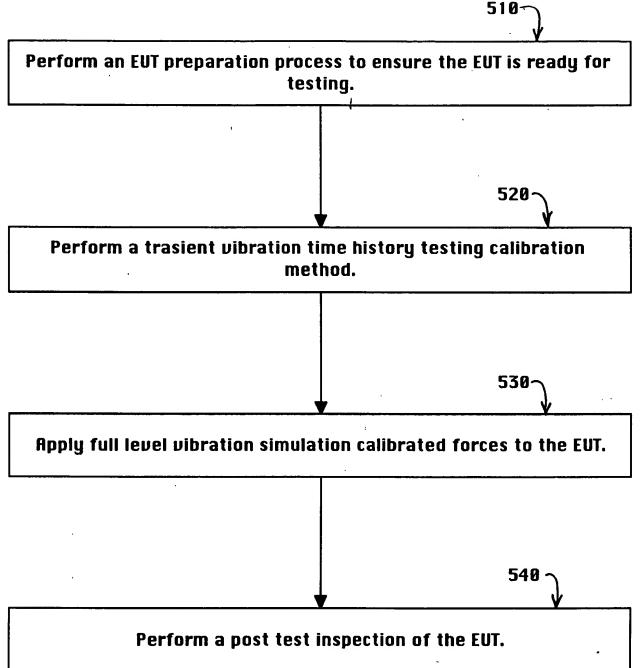


FIG 4







FUT at a furnia laural

610

Determine if it is approriate to test the EUT at a frame-level or a shelf-level.

620-

Configure a frame to a known realistic configuration per an anticipated end-use installation.

630

Preform a pre-test inspection process to detemine the pre-test condition of the EUT.

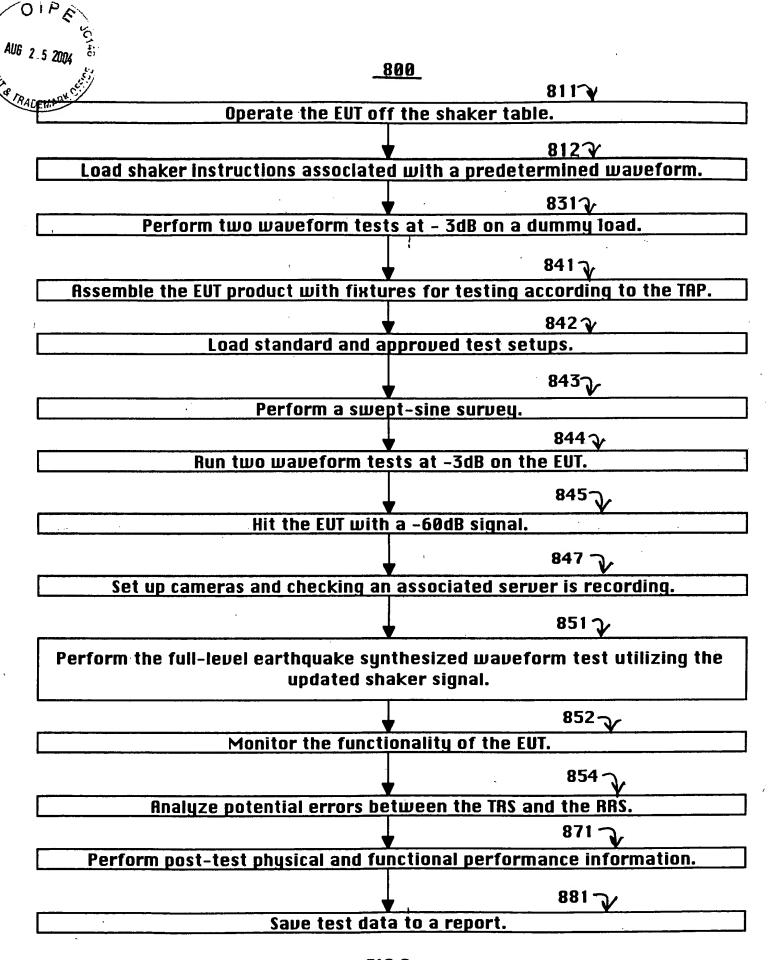
640-

Perform an end use compensation process that compensates for impacts from end use apenditures anticipated to be coupled to the EUT.



. Test Parameter	Performance Criteria	Test Tolerance TRS less than 30% over RRS from 1 to 7 Hz Not Applicable	
VERTEQII waveform	TRS shall meet or exceed RRS		
Acceleration	synthesized waveform 1.6 G's peak for 30 seconds		
lata sample rate	200 Hz	News	
st frame system	435 The (annual	Not Applicable +/- 5%	
ad-cell torque	un to 65 6 1b.		
isplacement		H- 1 ft-1b	
ack top)	76.2 mm maximum	H-5 mm	

FIG 7





Test Parameter	Performance Criteria	Test Tolerance
Prequency Range	1 to 50 Hz	
Sweep Rate	: 1.0 octave/minute	Not Applicable
Acceleration	0.2 G's	Not Applicable
data sample rate .	200 Hz	+/- 0.02 G's
est frame system weight		Not Applicable
- Jones weight	435 lbs (approximately)	+/-5%

FIG 9



:Model#	Code Nam	e Business Unit	Tori C
		:	BU Conta
Date	Vertical	Front-to-Back	File A Co
Time		·	bige-10-219
Test Engineer or Technician			
Frame Top Resonant Frequency (Hz)			
EUT Resonant Frequency (Hz)			
Peak Acceleration Response at the top of the Frame (G)			
Displacement (inches or mm)			•
Doors, Covers, Panels			
racks, Buckles, Visual			
folt or Anchor Torque values			
oad Cell values (lb. all 4)			
ED Status during the Test			
agnostic or software nction during the Test			
mments			

FIG 10